

## CLAIMS

### 1. An electronic device comprising:

a light source;

a discharge duct including an air intake port facing the light source and a discharge port for discharging cooling air that is taken from the air intake port and cooled the light source; and

a discharge fan mounted between the air intake port and the light source in a casing, wherein the discharge port has an opening area smaller than that of the air intake port and the discharge port is eccentric to the air intake port; and

the direction of air flow from the discharge fan is inclined with respect to the direction of the discharge of the cooling air from the discharge port.

2. An electronic device according to claim 1, wherein the discharge duct has an eccentric-side wall on the side where the discharge port is eccentric to the air intake port;

the eccentric-side wall is substantially horizontal; and

the discharge surface of the discharge fan is inclined away from the eccentric-side wall with distance from the air intake port toward the discharge port.

3. An electronic device according to claim 1, wherein the discharge duct has an eccentric-side wall on the side where the discharge port is eccentric to the air intake port;

the eccentric-side wall bulges toward the side where the discharge port is eccentric to the air intake port; and

the discharge surface of the discharge fan is inclined away from the eccentric-side wall with distance from the air intake port toward the discharge port.

4. An electronic device according to one of claims 1 to 3, wherein the discharge duct has an opposite eccentric-side wall on the side opposite to the side where the discharge port is eccentric to the air intake port;

the opposite eccentric-side wall has a slope inclined closer to the eccentric-side wall with distance from the air intake port toward the discharge port; and

the slope is provided to the duct intake end of the opposite eccentric-side wall.

5. An electronic device according to claim 4, wherein the opposite eccentric-side wall has a wall substantially parallel to the eccentric-side wall on the discharge port side.

6. An electronic device according to one of claims 1 to 5, wherein the opening area of the discharge port is about half of that of the air intake port.

7. An electronic device according to one of claims 1 to 6, comprising a louver including a plurality of blades, wherein the louver is mounted to the discharge port.

8. An electronic device according to one of claims 1 to 7, wherein the electronic device is a projector comprising an optical system modulating light beams emitted from the light source in accordance with image information to form an optical image and projecting it on an enlarged scale.